Claims

- [c1] What is claimed is:
 - 1. A font display method utilizing a system CPU and a font display co-processor to accelerate font display, the method comprising:

transmitting font information from the system CPU to the co-processor;

loading a mapping table and a font bitmap table into the font display co-processor;

the font display co-processor corresponding the font information to a font index according to the mapping table;

the font display co-processor corresponding the font index to a font bitmap according to the font bitmap table; and

the font display co-processor transmitting the font bitmap to a display module.

- [c2] 2. The font display method of claim 1 further comprising loading a font code table to the font display coprocessor.
- [c3] 3. The font display method of claim 2 further comprising the font display co-processor corresponding the font in-

formation to a font code according to the font code table.

- [c4] 4. The font display method of claim 2 further comprising the font display co-processor corresponding the font code to the font index according to the mapping table.
- [05] 5. The font display method of claim 1 further comprising loading the font bitmap to a memory of the display module.
- [06] 6. The font display method of claim 1 wherein the font display co-processor comprises an effect making unit.
- [c7] 7. The font display method of claim 6 wherein the effect making unit adds predetermined special effects to the font bitmap.
- [08] 8. The font display method of claim 7 wherein the added predetermined special effects are selected from a group consisting of colorful fonts, animation fonts, and 3D fonts.
- [09] 9. A font display co-processor for use in a device comprising a baseband CPU, the font display co-processor comprising: a memory used to store font information, a mapping ta-

ble, and a font bitmap table;

a processing unit electrically connected to the memory used to load the font information, the mapping table, and the font bitmap table to the memory; a receiving unit electrically connected to the system CPU to receive the font information from the system CPU; and a transforming unit electrically connected to the memory and the receiving unit for transforming the font information into a font code, or transforming a font code into a font index, or transforming a font index to a font bitmap.

- [c10] 10. The font display co-processor of claim 9, wherein the processing unit is connected to a display memory and the processing unit is used to store the font bitmap in the display memory.
- [c11] 11. The font display co-processor of claim 9 further comprising an effect making unit used to add predetermined special effects to the font bitmap.
- [c12] 12. The font display co-processor of claim 11 wherein the predetermined special effects are selected from a group consisting of colorful fonts, animation fonts, and 3D fonts.
- [c13] 13. A computer system comprising: a system CPU for controlling system operations;

a font display co-processor comprising:

a memory used to store a mapping table and a font bitmap table;

a processing unit electrically connected to the memory used to load font information, the mapping table, and the font bitmap table to the memory;

a receiving unit connected to the system CPU for receiving the font information from the system CPU; and a transforming unit electrically connected to the memory and the receiving unit for transforming the font information into a font code, or transforming a font code into a font index, or transforming a font index to a font bitmap; and

a display module connected to the font display coprocessor for displaying the font bitmap.

- [c14] 14. The computer system of claim 13 wherein the font display co-processor further comprises an effect making unit electrically connected to the transforming unit for adding predetermined special effects to the font bitmap.
- [c15] 15. The computer system of claim 14 wherein the predetermined special effects are selected from a group consisting of colorful fonts, animation fonts, and 3D fonts.
- [c16] 16. The computer system of claim 13 wherein the font information indicates which font is to be displayed on

the display module.

- [c17] 17. The computer system of claim 13 wherein the font display co-processor will be able to locate the associated font bitmap from the bitmap table by directly counting the relative location of the font code in the mapping table.
- [c18] 18. The computer system of claim 13 wherein the system CPU is a baseband processor.
- [c19] 19. The computer system of claim 13 wherein the computer system is a mobile phone or a PDA.